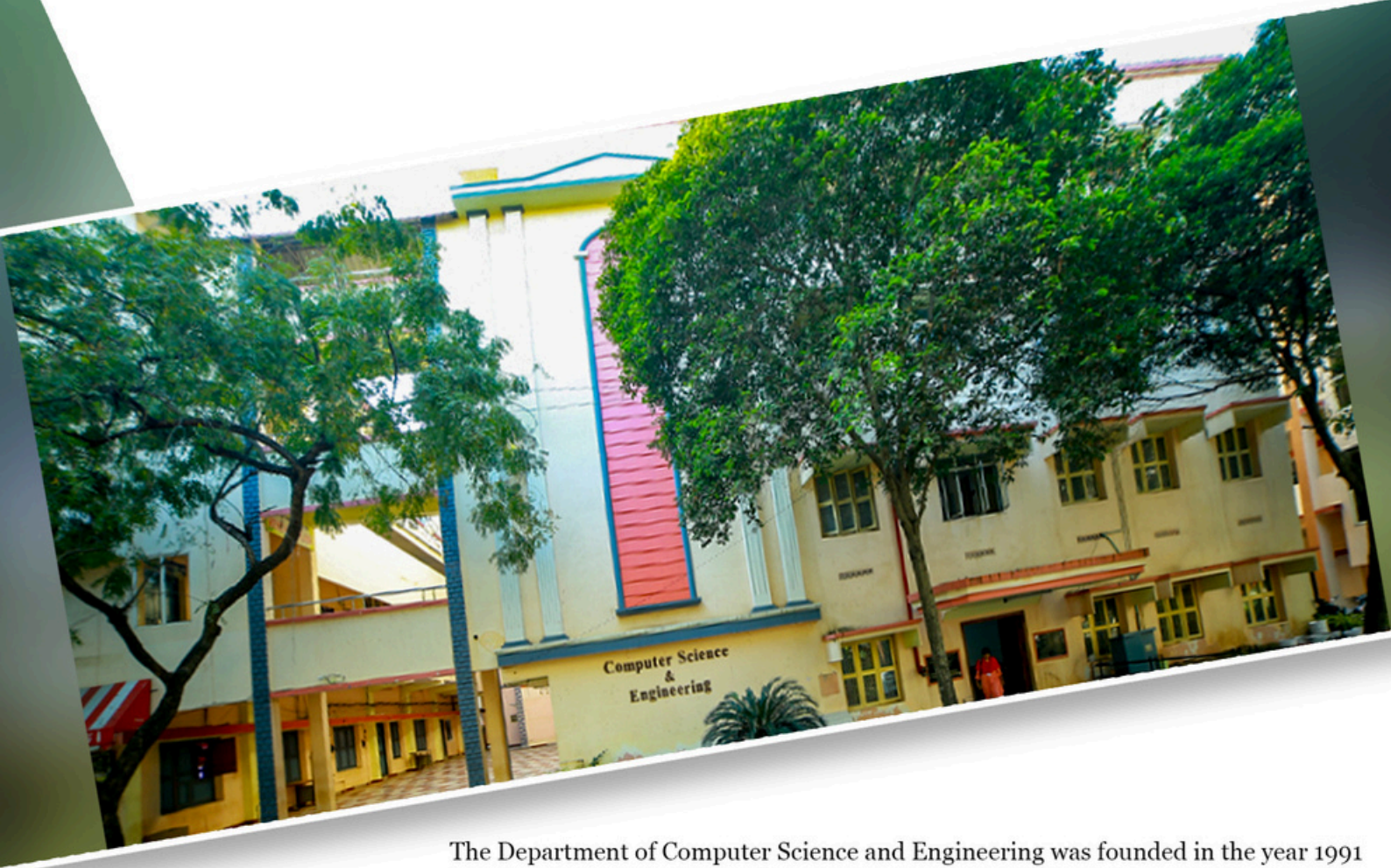# S R K R ENGINEERING COLLEGE
(AUTONOMOUS)

COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering was founded in the year 1991 by people who had a vision. This vision was how Computer Science and Engineering would fit into the unique spirit of S R K R Engineering college, an institution oriented to an unusual degree around under graduate education and close interdepartmental collaboration. One of the strengths of the department is well qualified and well experienced faculty. Presently having 3 Professors and 4 Associate Professors with 8 Ph.D., degrees and the Professors and Associate Professors have an average experience of 20 years, Assistant Professors having M.Tech., degrees with an average experience of 9 years. All the faculty are very much involved in research activity and doing research projects funded by DST, UGC, AICTE etc

A Note from Head of the Department

The Department of Computer Science and Engineering was founded in the year 1991 by people who had a vision. This vision was how Computer Science and Engineering would fit into the unique spirit of SRKR Engineering college, an institution oriented to an unusual degree around under graduate education and close interdepartmental collaboration. One of the strengths of the department is well qualified and well experienced faculty. Presently having 3 Professors and 4 Associate Professors with 8 Ph.D., degrees and the Professors and Associate Professors have an average experience of 20 years, Assistant Professors having M.Tech., degrees with an average experience of 9 years. All the faculty are very much involved in research activity and doing research projects funded by DST, UGC, AICTE etc

ACE ACTIVITIES

"PRAJWALAN" was a Hackathon organized by the CSE department. The event had a prize pool of 30,000/-. It consisted of three rounds: Idea Submission, Idea Presentation, and Grand Finale held from 16th and 17th Feb. Participants formed teams of 3-6 members and developed prototypes within 24 hours. Winners were awarded cash prizes and certificates.

"PRAJWALAN" was a Hackathon targeting tech-inclined individuals. Participants submitted ideas, presented them, and competed in a 24-hour coding event. The event received a huge response, with over 26,602 impressions and 500 registrations for the initial rounds. A total of 330 participants made it to the Grand Finale. Winners included Cage Decoders (1st place), Vision Guardians (2nd place), and Sign Squad (3rd place). They were awarded cash prizes and certificates.
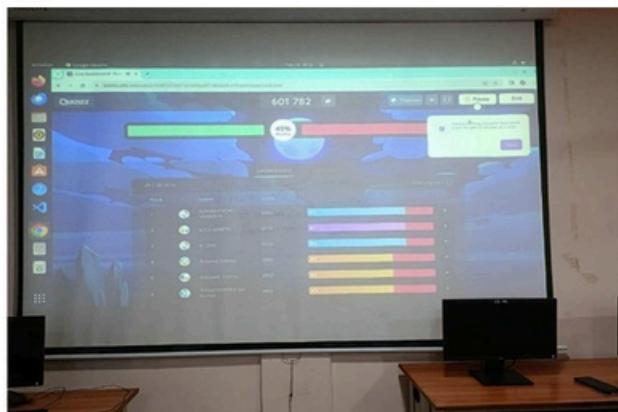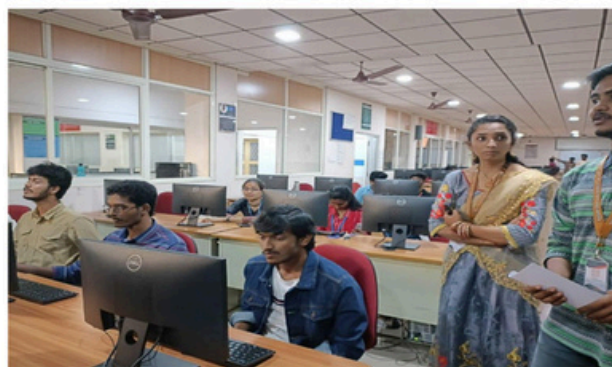
SPURTHI - 2K24

A National Level technical Symponium national-level SPURTHI' 24 on February 24, 2024, by ACE in Association with Department of CSE

SUB EVENTS

FLASH VISION

MYSTERY TRAIL

PRESENTIA

TECHNO TROVE

WEB WIZARDS

WORKSHOPS

Professor V. Vallikumari shared invaluable insights on AI and Deep Fakes.
Participants gained profound knowledge about the challenges and countermeasures
in these technologies this was held on jan 7th 2024

A 2 day workshop on IOT was conducted on february 2nd 2024
to ehance the students practical knowledge towards iot by faculty of CSE depetartment

A Hands-on WorkShop on DevOps has been contacted on 24-03-2024 where
Sri M.V.Narasimha Raju from Genpact has acted as resource person

FACULTY PUBLICATIONS

INTERNATIONAL CONFERENCES

R. Shivasankar presented his conference paper Performance Analysis of Query-Based Image Tagging Model in CBIR at the International Conference on Advancement in Computation & Computer Technologies (InCACCT), published in International Proceedings, 2024, pp. 734-739, ISBN: 979-8-3503-7132-1.

G. N. V. G. Sirisha presented her conference paper VGG-SSD Model for Weapon Detection using Image Processing at the International Conference on Applied Artificial Intelligence and Computing, published in International Proceedings, 2024, pp. 890-894, ISBN: 979-8-3503-7519-0.

K. Durga Bhavani presented herconference paper Secured Communication Strategy for Vehicular Ad-Hoc Network at the Intelligent Systems and Sustainable Computing (ICISSC), published in Smart Innovation, Systems and Technologies, Volume 363, 2024, pp. 403-43, ISBN: 978-981-99-4717-1.

K. V. S. S. Murthy presented his conference paper EnhancingHeart Disease Prediction with Multiple Imputation and Feature Selection in XGBoost at the International Conference on Advancement in Computation & Computer Technologies (InCACCT), published in International Proceedings, 2024, pp. 419-424, ISBN: 979-8-3503-7131-4.

P. Neelima presented her conference paper SHAP-Guided GWO and ABC Feature Selection for Early Diabetes Prediction with XGBoost at the International Conference on Advancement in Computation & Computer Technologies (InCACCT), published in International Proceedings, 2024, ISBN: 979-8-3503-7131-4.

S. Suresh Kumar presented his conference paper Abnormality Detection in Smartphone-Captured Chest Radiograph Using Multi-pretrained Models at the Proceedings of Data Analytics and Management (ICDAM), published in Springer Lecture Notes in Networks and Systems, Volume 786, 2024, pp. 81-92, ISBN: 978-981-99-6547-2.

FACULTY PUBLICATIONS

INTERNATIONAL CONFERENCES

D. N. S. B. Kavitha presented her conference paper Comparative Analysis of Feature Ranking Algorithms for Erythemato-Squamous Disease Classification at the International Conference on Social and Sustainable Innovations in Technology and Engineering, published in International Proceedings, 2024, pp. 327-332, ISBN: 979-8-3503-6079-0.

D. N. S. B. Kavitha presented her conference paper Insights into Seafood Quality: Machine Learning Algorithms and Key Feature Analysis at the International Conference on Distributed Computing and Optimization Techniques, published in International Proceedings, 2024, pp. 1-7, ISBN: 979-8-3503-8295-2.

J. Rajanikanth presented his conference paper Bridging Horizons in Diabetes Prediction: A Comparative Exploration of Machine Learning and Deep Learning Approaches in Pima Indian Women at the IEEE International Conference on Advancement in Computation & Computer Technologies, published in International Proceedings, 2024, pp. 386-391, ISBN: 979-8-3503-7131-4.

K. Aruna Kumaripresented her conference paper eMRA: A Multi-Objective ResourceAllocation Technique using Genetic Algorithms for Cloud Computing at the IEEE International Conference on Distributed Computing and Optimization Techniques, published in International Proceedings, 2024, pp. 1-5, ISBN: 979-8-3503-8295-2.

K. Aruna Kumaripresented her conference paper eMRA: A Multi-Objective ResourceAllocation Technique using Genetic Algorithms for Cloud Computing at the IEEE International Conference on Distributed Computing and Optimization Techniques, published in International Proceedings, 2024, pp. 1-5, ISBN: 979-8-3503-8295-2.

K. Aruna Kumari presented her conference paper Gated Recurrent Unit with Adaptive Golden Jackle Optimization based Efficient Resource Scheduling in Mobile Cloud Computing at the IEEE International Conference on Distributed Computing and Optimization Techniques, published in International Proceedings, 2024, pp. 1-4, ISBN: 979-8-3503-8295-2.

N. K. Kameswara Rao presented his conference paper A Hybrid K-means and ML Classification Approach forCredit Card Fraud Detection at the International Conferencefor Innovation in Technology, published in International Proceedings, 2024, pp. 1-5, ISBN: 979-8-3503-8193-1.

FACULTY PUBLICATIONS

WEB OF SCIENCE (SCIE/SCI/ESCI) JOURNALS

B. N. V. Narasimha Raju presented his journal paper The English to Telugu CLIR for NER using Bidirectional Encoding and Unidirectional Decoding using Random Sampling and Beam Search in the International Journal of Electronics and Communication Engineering, published in International Proceedings, 2024, 11(5), pp. 170-178.

B. N. V. Narasimha Raju presented his journal paper The English to Telugu CLIR for NER using Bidirectional Encoding and Unidirectional Decoding using Random Sampling and Beam Search in the International Journal of Electronics and Communication Engineering, published in International Proceedings, 2024, 11(5), pp. 170-178.

Ch. Raminaidu presented his journal paper Effective Fake News Classification Based on Lightweight RNN with NLP in the Annals of Data Science, published in International Proceedings, 2024, pp. 1-25.

Ch. Suma presented her journal paper Chronic Hepatitis-C Detection Interpretation Using Machine Learning Algorithm and with Clinical Findings in the Journal of Theoretical and Applications Engineering Information Technology, published in International Proceedings, 2024, 102(5), pp. 2050-2058, Impact Factor: 9.24

David Raju Kuppala presented his journal paper A Novel Machine Learning Framework for Energy Optimization in WSNs in the African Journal of Biological Sciences, published in International Proceedings, 2024, 6(5), pp. 6675-6685, Impact Factor: 0.307

Dr. M. Srihari Varma presented his journal paper Black Hole Attack Detection Using Dolphin Echo-location-Based Machine Learning Model in MANET Environment in Computers and Electrical Engineering, published in International Proceedings, 2024, 1932:14, Impact Factor: 4.

Dr. M. Srihari Varma presented his journal paper Brinjal Crop Yield Prediction Using Shuffled Shepherd Optimization Algorithm Based ACNN-OBDLSTM Model in Smart Agriculture in the Journal of Integrated Science and Technology, published in International Proceedings, 2024, 12(1), pp. 7-10, Impact Factor: 0.57.

Dr. M. Srihari Varma presented his journal paper Evaluation of Tennis Teaching Effect Using Optimized DL Model with Cloud Computing System in the International Journal of Modern Education and Computer Science, published in International Proceedings, 2024, 16(2), pp. 16-28, Impact Factor: 0.669.

Dr. M. Srihari Varma presented his journal paper Twitter Sentiment Analysis on Online Food Services Based on Elephant Herd Optimization with Hybrid Deep Learning Technique in Cluster Computing, published in International Proceedings, 2024, 27(1), pp. 655-671, Impact Factor: 3.6.

Dr. P. Bharat Siva Varma presented his journal paper Exterior Wound Detection and Classification Using Features Based Deep CNN in the Journal of Theoretical and Applied Information Technology, published in International Proceedings, 2024, 102(4), Impact Factor: 0.76

Dr. P. Ravi Kiran Varma presented his journal paper A Novel Approach for Bluetooth Mesh Network Detection Using Machine Learning and Correlation Analysis in Procedia Computer Science, published in International Proceedings, 2024, 233, pp. 580-589, Impact Factor: 1.571.

Dr. P. Ravi Kiran Varma presented his journal paper Integration of Electric Vehicle into Smart Grid: A Meta Heuristic Algorithm for Energy Management Between V2G and G2V in Frontiers in Energy Research, published in International Proceedings, 2024, 22643:03:00.000, Impact Factor: 2.6.

WEB OF SCIENCE (SCIE/SCI/ESCI) JOURNALS

Dr. R. N. V. Jagan Mohan presented his journal paper Improving Fish Image Detection Speed with Hybrid VGG16 and Darknet in Multimedia Tools and Applications, published in International Proceedings, 2024, pp. 1-16, Impact Factor: 3.

Dr. V. M. N. S. V. Gupta presented his journal paper A Comprehensive Machine Learning Technique for Ovarian Cancer Prediction in the African Journal of Biological Sciences, published in International Proceedings, 2024, 6(5), pp. 6675-6685, Impact Factor: 0.3.

Gopala Varma Kosuri presented his journal paper Robustness and Security in Deep Learning: Adversarial Attacks and Counter measures in the Journal of Electrical Systems, published in International Proceedings, 2024, 20-3s, pp. 1250-1257, Impact Factor: 0.166.

VISION

To envision a diverse, stimulating, continually improving academic and research environment to fulfill the needs of the society and to mould students as socially responsible and competent professionals in the field of computer science and engineering.

MISSION

To provide a strong theoretical and practical background across the computer science and engineering discipline with an emphasis on software development.

To impart modern technologies with industrial, academic and research collaboration.

To inculcate professional behavior, strong ethical values, leadership abilities and impart the skills necessary to continue education for professional growth.

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